This Page Is Inserted by IFW Operations and is not a part of the Official Record

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

IMAGES ARE BEST AVAILABLE COPY.

As rescanning documents will not correct images, please do not report the images to the Image Problem Mailbox.



APP APC
M RT PCR RT PCR

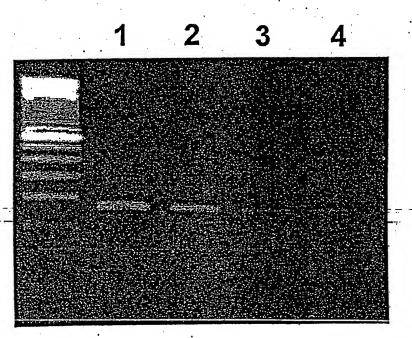
600bp-

BLOOD HEH HAH
RT PCR RT RT M

-600bp

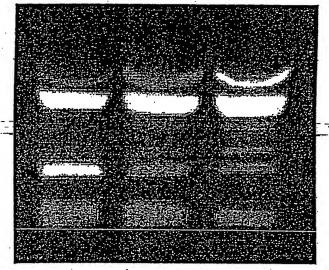








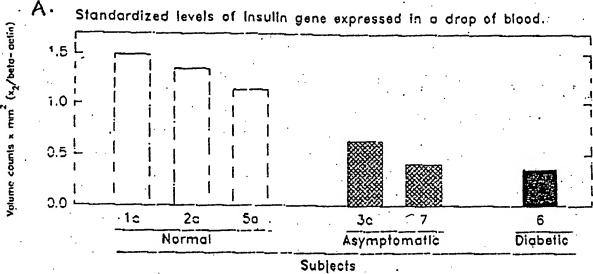
1 2 3

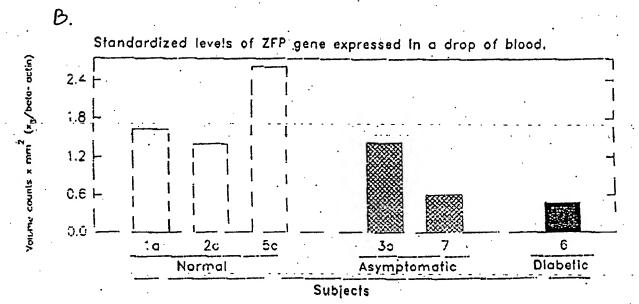


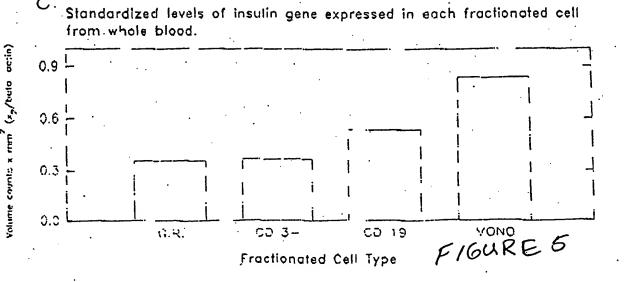
ZFP GADH

INS











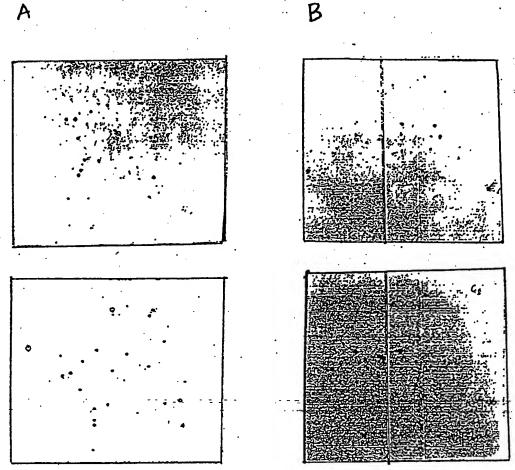


FIGURE 6



Total:13, 283 ESTs Known: 6,283 Mitochondrial: 405

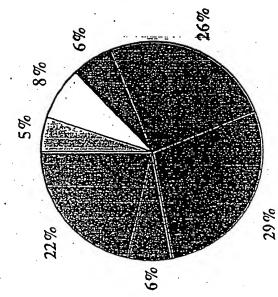
Ribosome: 498

Cell Division

Repeat: 868

Mis.: 156 Novel: 2,718

Human Blood



☐ Cell Signalling/Communication

Cell structure/Motility

El Cellorganism defense

國 Gene/Protein expression

Metabolism

國 Unclassified

Human Fetal Heart

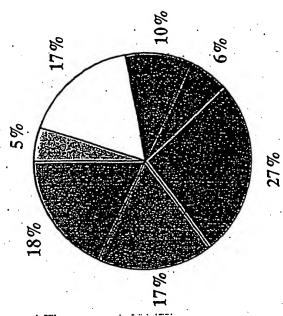
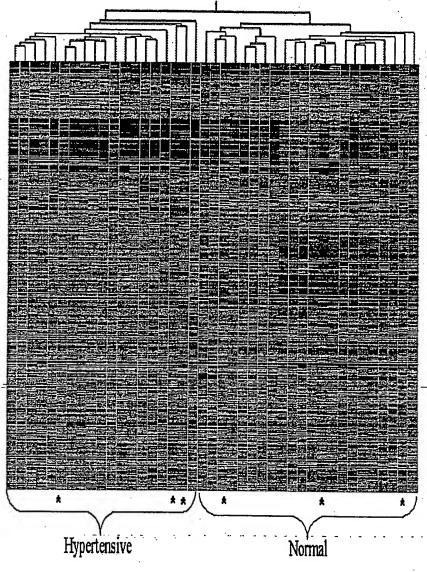




Figure 8
Hypertension

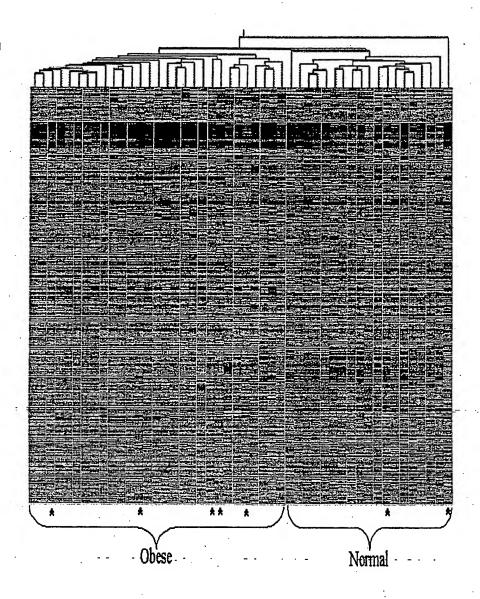


Hypertensive: 19

Normal: 22



Figure 9
Obesity

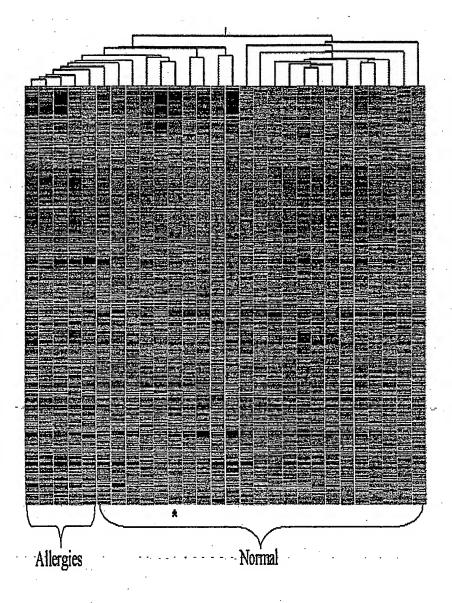


Obese: 25

Normal: 22



Figure 10 Allergies

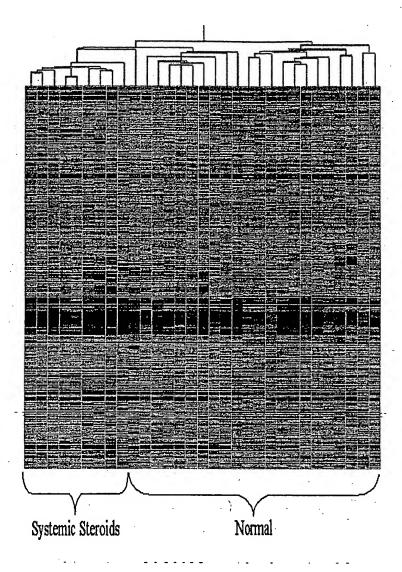


Allergies: 6

Normal: 22



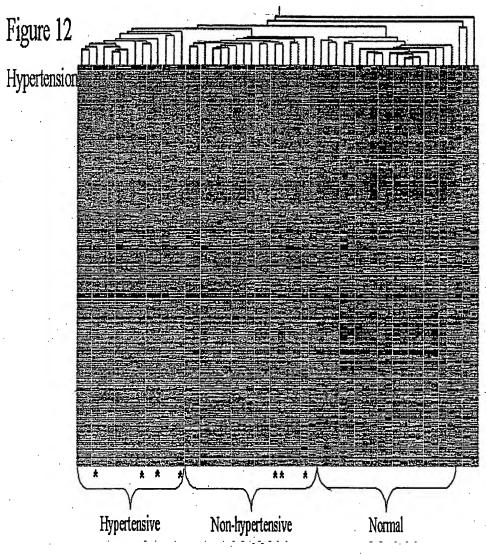
Figure 11
Systemic
Steroids



Systemic Steroids: 9

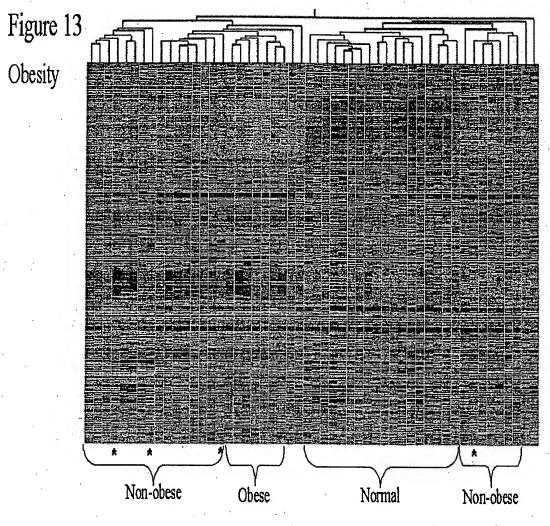
Normal: 22





Hypertensive: 10
Non-hypertensive: 18
Normal: 24
Differentially Expressed Genes (p<0.05): 1,993





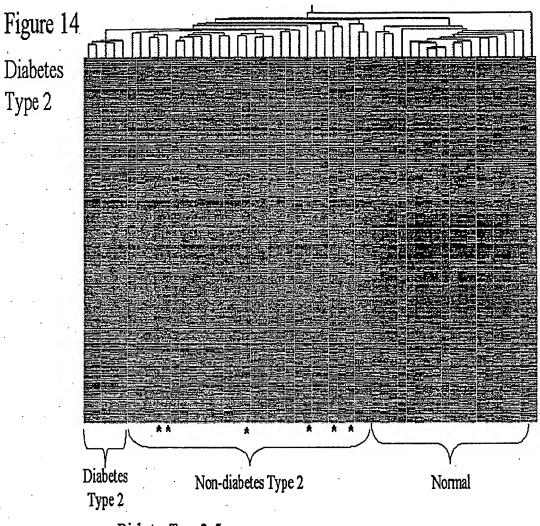
Obese: 8

Non-obese: 20

Normal: 24



Type 2

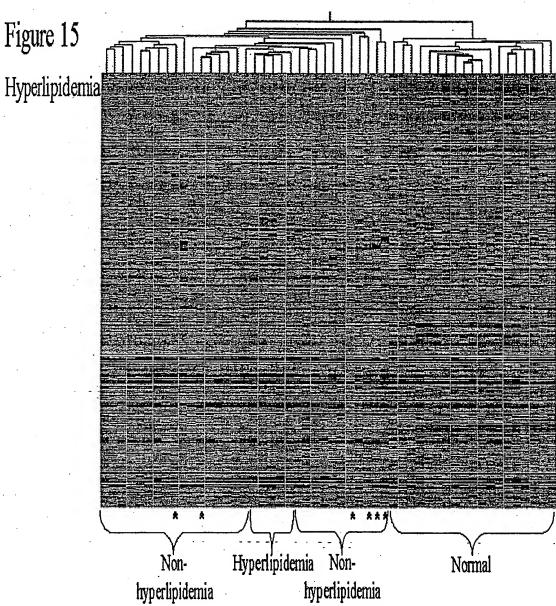


Diabetes Type 2: 5

Non-diabetes Type 2: 23

Normal: 24



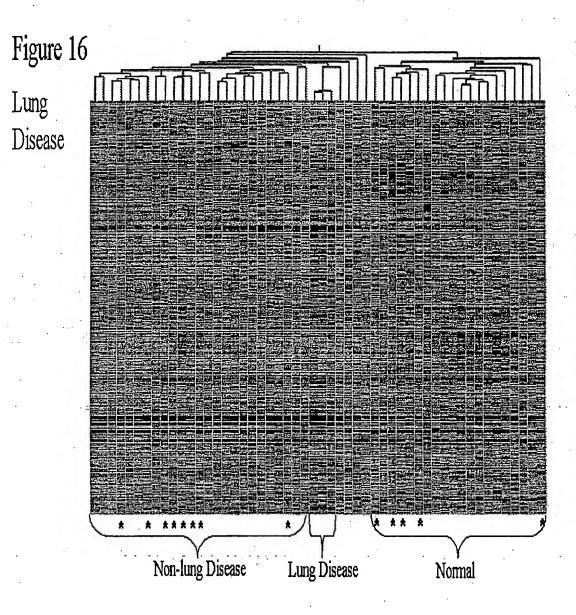


Hyperlipidemia: 7

Non-hyperlipidemia: 21

Normal: 24





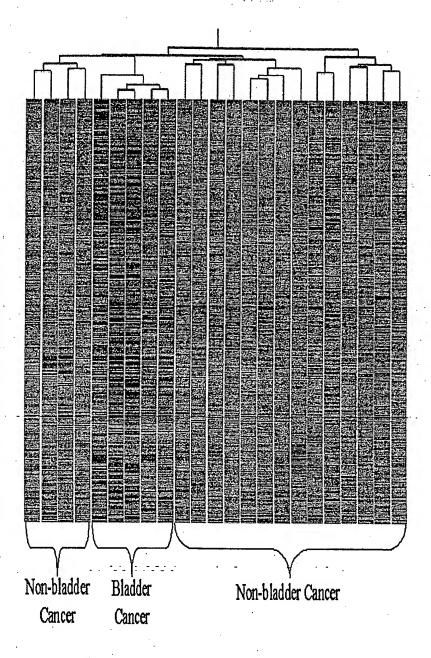
Lung Disease: 3

Non-lung Disease: 25

Normal: 24



Figure 17
Bladder
Cancer

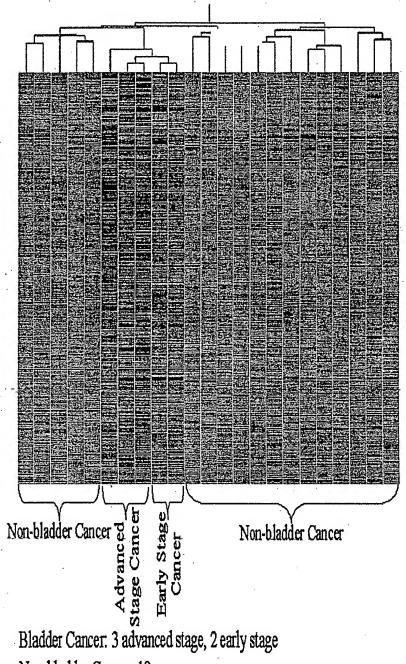


Bladder Cancer: 5 Non-bladder Cancer: 18 Differentially Expressed Genes (p<0.05): 4,228



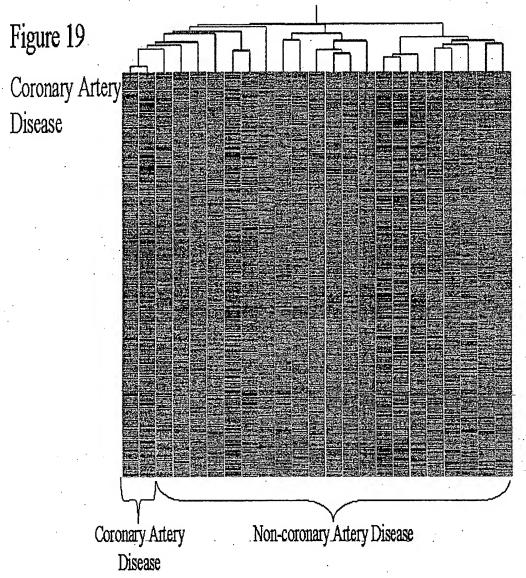
Figure 18

Bladder Cancer



Non-bladder Cancer: 18



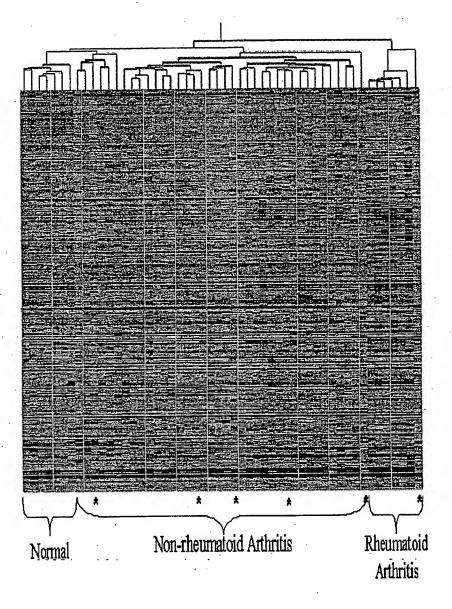


Coronary Artery Disease: 2

Non-coronary Artery Disease: 21



Figure 20
Rheumatoid
Arthritis



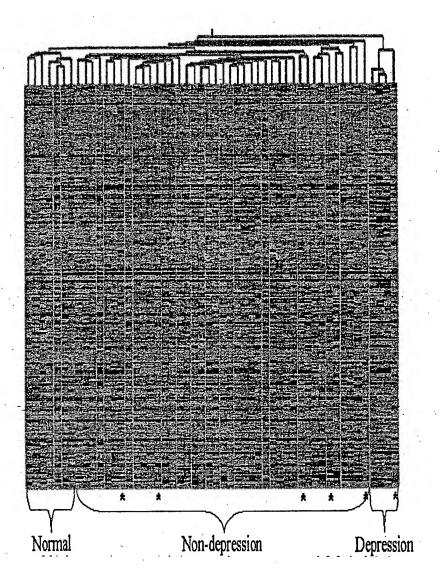
Rheumatoid Arthritis: 6

Non-rheumatoid Arthritis: 34

Normal: 12



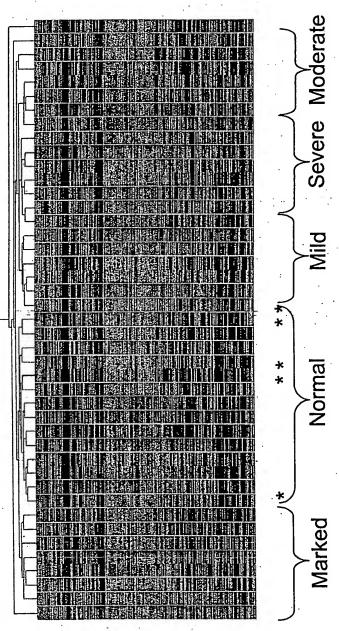
Figure 21
Depression



Depression: 3 Non-depression: 37 Normal: 12 Differentially Expressed Genes (p<0.05): 941



Figure 22 Osteoarthritis



Osteoarthritis: 9 mild, 8 moderate, 8 marked, 9 severe Normal: 9

RT-PCR of overexpressed genes in CAD peripheral blood cells identified using microarray experiments, Figure 23

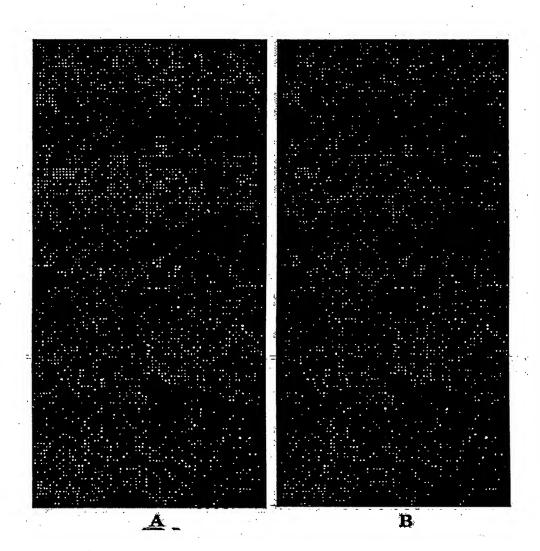
including PBP, PF4 and F13A.

Marker Contr. 1 Contr. 2 Contr. 3 CADI CADA CADA

CHILD SALES Platelet Factor 4 ctivating Peptide III



Figure 24

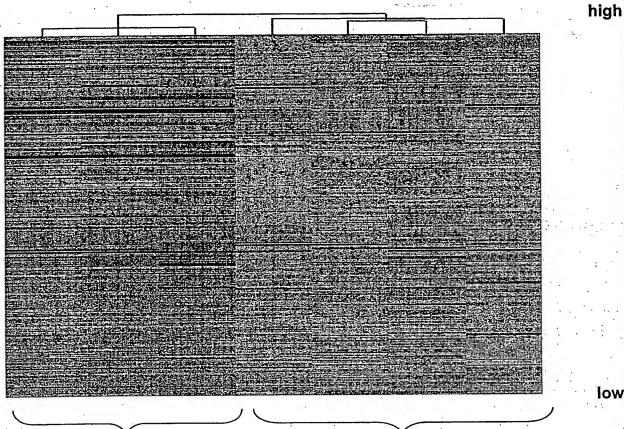


APR 0 1 2004 E

Figure 25

Liver Cancer

Control

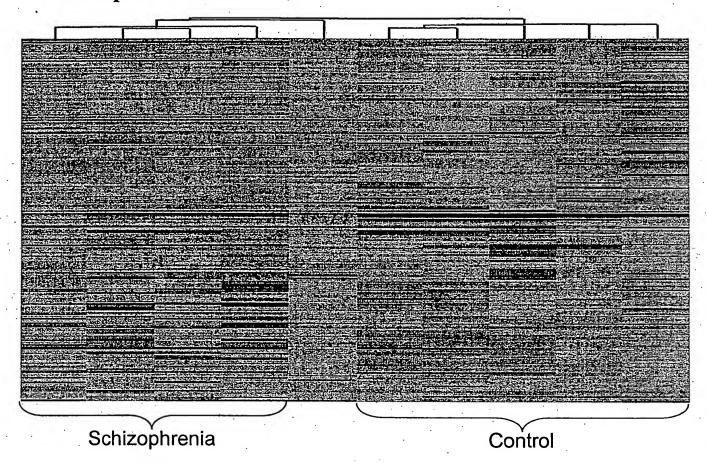


Control (red): n=3; Liver Cancer (orange): n=4

Liver Cancer

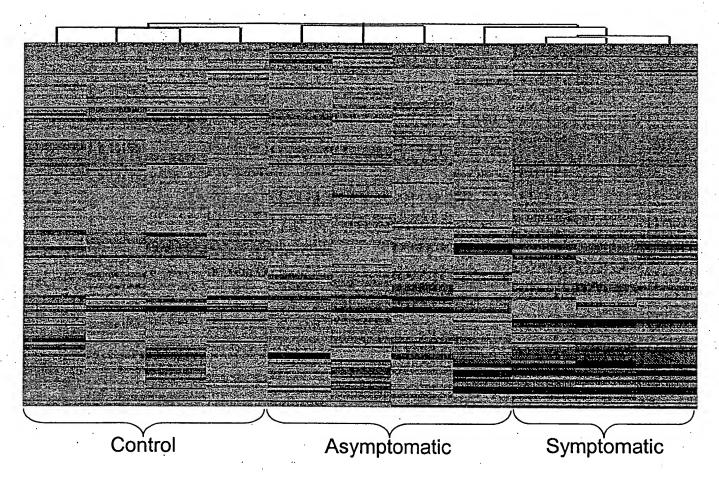
relative expression level APR 0 7 2004 E. Figure 26

Schizophrenia



Control (red): n=6; Schizophrenia (orange): n=4

p<0.005 252 genes

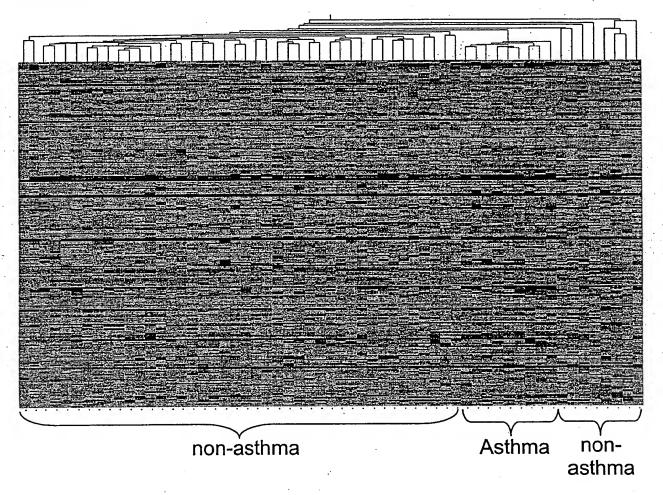


Control (orange): n=4; Chagas' asympt. (red): n=4; Chagas' sympt. (yellow): n=3

p<0.01 155 genes APR 01 2004 ES

Figure 28

Asthma

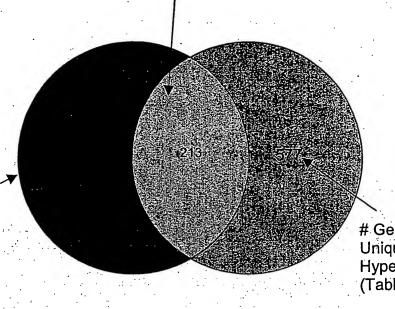


Asthma: n=9 Non-asthma: n=50

p<0.05 219 genes MAN O 1 MAN OF STEEL THE WAY IN THE STEEL THE STEEL THE WAY IN THE STEEL THE WAY IN THE STEEL TH

Figure 29

Intersecting Genes (Table 3Q)



Genes OA and Hypertension v. Normal (Table 3A-648+213) # Genes Unique to Hypertension (Table 3P)



Figure 30

Genes OA and Obesity v. Normal (Table 3B) Intersecting Genes (Table 3S)

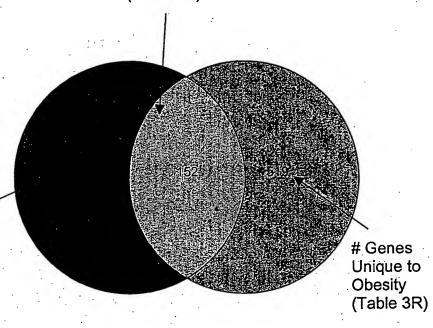
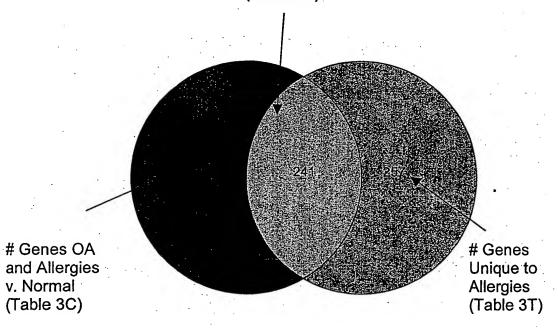


Figure 31

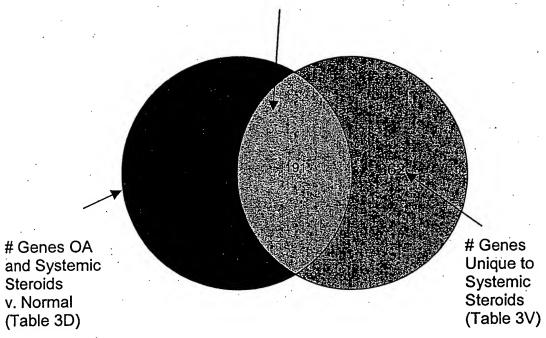
Intersecting Genes (Table 3U)



ARR 01 2004 Eight

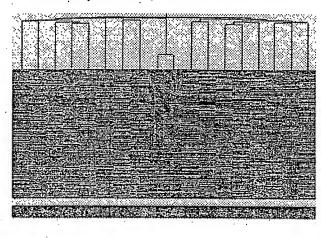
Figure 32

Intersecting Genes (Table 3W)





Schizophrenia, Batch 2 vs. MDS



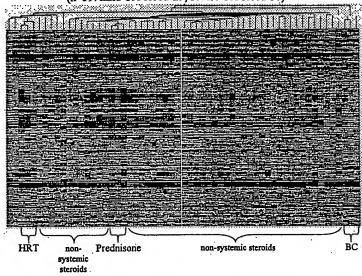
Schizophrenia (yellow): n=16; MDS (blue): n=2

p<0.05 294 genes

MDS = Manic Depression Syndrome



OA Blood Samples Co-morbidities Study: Systemic Steroid Groups (n=59: mild OA blood-29, severe OA blood-30)



Systemic Steroids (n=9): 3 prednisone, 3 birth control, 3 hormone replacement therapy Non-systemic steroids: 50 Differentially Expressed Genes (p<0.05): 396

HRT = hormone replacement therapy; BC = birth control